

Listing of Claims:

- 1.(Original) High-voltage direct current cable semiconductive shield comprising:
a blend of or which is made from a blend of
 - (a) at least one ethylene copolymer having a density of less than about 0.900grams/cubic centimeter, a melt index of from about 0.5 to about 10grams/10 minutes, a crystallinity of less than about 10 percent and a catalyst residue of less than about 1000 ppm;
 - (b) a carbon black having a low level of ionic species;
 - (c) at least one polar polymer modifier in an amount effective to provide a semiconductive shield made with the blend with an enhanced field conductivity and enhanced space charge leakage at high fields relative to a semiconductive shield made with a blend which does not include a polar polymer modifier; and
 - (d) at least one ion scavenger in an amount effective to reduce ionic mobility relative to a semiconductive shield made with a blend, which does not include an ion scavenger.
- 2.(Original) A high-voltage direct current cable semiconductive shield according to Claim 1, wherein the ethylene copolymer is selected from the group consisting of
 - (a) ethylene/alpha olefin copolymers and
 - (b) nonpolar, low crystalline ethylene copolymers selected from the group consisting of ethylene/propylene copolymer and ethylene/styrene copolymer and mixtures thereof.
- 3.(Original) The high-voltage direct current semiconductive shield of claims 1 or 2, wherein the blend further includes at least one heat stabilizer.
- 4.(Currently Amended) The high-voltage direct current semiconductive shield of any of claims 1 or 2–3, wherein
 - (a) the polar polymer modifier is selected from the group consisting of (i) a polymer having a density of less than 0.900grams/cubic centimeter

with at least one side group selected from the group consisting of hydroxyl, carboxyl, styrenic; (ii) a polymer having a density of less than 0.900grams/cubic centimeter and at least one side group which is a residue of maleic anhydride, vinyl acetate or vinyl acrylate; (iii) a polylactone resin and; (iv) mixtures thereof, and

- (b) the ion scavenger has at least one chelating group.

5.(Original) The high-voltage direct current semiconductive shield as recited in claim 4, wherein the ion scavenger is selected from the group consisting of 1,2-bis(3,5-di-tert-butyl-4-hydroxyhydrocinnamoyl)hydrazine, poly[[6-[1,1,3,3-tetramethylbutyl]amino]-s-triazine-2,4-diyl][2,2,6,6-tetramethyl-4-piperidyl]imino]hexamethylene[(2,2,6,6-tetramethyl-4-piperidyl)imino]] N,N'-bis(0-hydroxybenzal) oxalydihydride, barbituric acid, tertiary phosphorous acid ester of a thiobisphenol, and N,N'-diphenyloxamid, and mixtures thereof.

6.(Currently Amended) The high-voltage direct current semiconductive shield of any one of claims 1,2, or - 5, wherein the ethylene copolymer is crosslinked.

7.(New) The high-voltage direct current semiconductive shield of claim 3, wherein

- (a) the polar polymer modifier is selected from the group consisting of (i) a polymer having a density of less than 0.900grams/cubic centimeter with at least one side group selected from the group consisting of hydroxyl, carboxyl, styrenic; (ii) a polymer having a density of less than 0.900grams/cubic centimeter and at least one side group which is a residue of maleic anhydride, vinyl acetate or vinyl acrylate; (iii) a polylactone resin and; (iv) mixtures thereof, and
- (b) the ion scavenger has at least one chelating group.

8.(New) The high-voltage direct current semiconductive shield of claim 3, wherein the ethylene copolymer is crosslinked.